Altimeter Products for Space Oceanography

Topex/Poseidon and Jason-1 Data Products

Delayed Time Products

Product Description	Characteristics / Comments	Distribution& Diffusion Media	Frequency	Time-delay	Data coverage	Size and granularity
Gridded Sea Level Anomalies **Contents:** gridded sea level height with respect to a seven year mean (1993-1999) **Use:** study of ocean variability (mesoscale circulation, seasonal variation, El Niño…)						
MSLA (Maps of Sea Level Anomalies) - 1/3 degree x 1/3 degree Mercator grid **Distributed by AVISO** **(cf. ENACT web site** http://www.cls.fr/enact**)**	Mono altimeter satellite product: - Topex/Poseidon - Jason-1 - Combining all available altimeter data : Topex/Poseidon / Jason-1 with ERS / Envisat	- DVD ROM (MSLA + SLA) - Delayed time FTP on ENACT web site, or by anonymous FTP at ftp.cls.fr in /pub/oceano/enact/msla	- A DVD collection produced gathering all data until February 2002 - Then a DVD ROM per year - Computed every 6 months	Between 6 months and 1 year	October 1992 - February 2002	- a worldwide map representing the situation at the file date - and produced using last 6 weeks of data - A file every 7 days - 1.6 MB (zipped)
SSHA (Sea Surface Height Anomaly Grids) - 0,5 degree x 0,5 degree grid with gaps when no data - 1 degree x 1 degree grid (completed by interpolation when no data) **Distributed by PO.DAAC/WOCE (v3)**	- Topex/Poseidon data co-located with AVHRR sea surface temperature data	- DVD ROM (780 MB, zipped) - DVD ROM (folder available on-line) - Delayed anonymous FTP (cf. http://podaac.jpl.nasa.gov/woce)	- A DVD collection produced gathering all data until February 2002 - Computed every 6-months	Between 6 months and 1 year	October1992 - August 2002	- A file every 5 days - 43 KB per file

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Along-track Sea Level Anomalies **Contents:** along-track sea level height with respect to a seven year mean (1993-1999), corrected from all geophysical effects **Use:** study of ocean variability (mesoscale circulation, seasonal variations, El Niño…)						
SLA (Sea Level Anomalies) **Distributed by AVISO** **(cf. ENACT web site** http://www.cls.fr/enact**)**	Mono altimeter satellite products : - Topex/Poseidon, ERS - Soon available for Jason-1 and Envisat (after validation phase) - Delivered with GDR and CORSSH for Jason-1 products	- DVD ROM (MSLA+SLA) for Topex/Poseidon - DVD ROM (for Jason-1, distributed with GDR and CORSSH) - Delayed time FTP on ENACT web site, or by anonymous FTP at ftp.cls.fr in /pub/oceano/enact/sla, 1 zipped file for cycles 2 to 351.	-A DVD collection produced gathering all data until February 2002 for Topex/Poseidon data -Then a DVD ROM per year -Computed every 6 months	Between 6 months and 1 year	October 1992 – February 2002	- 10 days of data (one cycle) per file - 200 MB per file (zipped) (cycles 2 to 351)
SSHA (Sea Surface Height Anomalies) **Distributed by PO.DAAC**	Along-track sea level height anomalies + Sigma-0, Significant Wave Height… Mono altimeter satellite product : - Topex/Poseidon (TPSHA) and Jason-1 (J1SSHA),	- DVD ROM - FTP (cf. Near Real Time Image Distribution Server : http://nereids.jpl.nasa.gov and by anonymous FTP at ftp://podaac.jpl.nasa.gov/pub/)	- A DVD collection produced gathering all data until February 2002 for Topex/Poseidon data - By FTP, every 10-days (cycle)		May 1997 – February 2003	- 10 days of data (one cycle) per file - 1.4 MB per file (zipped)

http://www.aviso.oceanobs.com
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http://podaac.jpl.nasa.gov
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Wind/Wave Data **Contents:** along-track significant wave height and/or wind speed modulus **Use:** marine meteorology, ocean-atmosphere gas transfer studies						
Wind Wave (Extracted from M-GDR) **Distributed by AVISO**	- For Topex/Poseidon - **Not available for Jason-1**	- CD ROM - CD from GDR products	On request via Catalogue AVISO and also included in GDR products	One month after the end of the cycle	October 1992 – ongoing	- 10 days of data (one cycle) per file - 800 KB per file
Wind Wave (Extracted from M-GDR or in OSDR product) **Distributed by PO.DAAC**	-Topex/Poseidon	- CD ROM	On request	One month after the end of the cycle	October 1992 – ongoing	- 10 days of data (one cycle) per file - 800 KB per file
Corrected Sea Surface Heights **Contents:** along-track sea surface heights corrected from all geophysical effects, plus the mean sea surface **Use:** stationary or long-term geophysical and ocean phenomenon studies						
CORSSH **Distributed by AVISO**	- Available for both Topex/Poseidon and ERS - Soon available for Jason-1 and Envisat (after validation phase), and delivered with GDR and SLA products for Jason-1 mission	- CD ROM - CD from GDR products	- Once a year - Every 10-days	One month after the end of the cycle	October 1992 (T/P) or January 2002 (Jason-1) – ongoing	- 10 days of data (one cycle) per file - 16 MB per file

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Geophysical Data Records **Contents:** along-track altimetric measurement averaged over 1 second, corrections to apply **Use:** delayed precise products for geophysical studies and near real time products for operational oceanography						
M-GDR (Merged GDR, for Topex/Poseidon) **J-GDR (for Jason-1)** Distributed by AVISO	**- Version C** for homogeneous/merged Topex/Poseidon (untill cycle 364 of Topex/Poseidon) then **version D** for follozing cycles - Jason-1 (**version C**)	- CD ROM - DVD ROM for Topex/Poseidon+Jason-1 - Jason-1 GDR data distributed on DVD ROM togeter with SLA and CORSSH - For Jason-1 by anonymous FTP at ftp.spike.cst.cnes.fr in /pub/AVISO/JASON-1/IGDR	- Every 2-months - Every 10-days	-Every 30 days, 3 cycles	October 1992 (T/P) or January 2002 (Jason-1) – ongoing	- One pass per file - 800 KB per pass file
M-GDR (Merged GDR, for Topex/Poseidon) **J-GDR (for Jason-1)** Distributed by PO.DAAC	**Version B** - Homogeneous/merged Topex/Poseidon - Jason-1	-CD ROM	- On request, 1 month per CD ROM	monthly	October 1992 (T/P) or January 2002 (Jason-1) – ongoing	- One pass per file - 800 KB per pass file
Sensor Geophysical Data Records **Contents:** 20 Hz along-track waveform information **Use:** expert use						
Waveforms Distributed by AVISO	- Extracted from S-GDR - When Poseidon-1 instrument is on	- CD ROM	On request via AVISO Catalogue		October 1992 - ongoing	- 60 MB per pass file
S-GDR Distributed by AVISO	- Jason-1 (**No extraction from S-GDR**)	- CD ROM	On request via AVISO Catalogue	monthly	January 1992 - ongoing	- 60 MB per pass file
S-GDR Distributed by PO.DAAC	- Topex/Poseidon and Jason-1	- CD ROM	On request, 1 month per CD ROM	monthly	October 1992 (T/P) or January 2002 (Jason-1) – ongoing	- 60 MB per pass file - 60 MB perf file